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DATE MAILED: 06/04/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10.054,441	01,22,2002	Josef Bock	Z&PINFN10455	5342
75	06 04 2003			
LERNER AND GREENBERG, P.A.			EXAMINER	
Post Office Box Hollywood, FL			POMPEY, RO	N EVERETT
			ART UNIT	PAPER NUMBER
			2812	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	An				
	10/054,441	BOCK, JOSEF					
Office Action Summary	Examiner	Art Unit					
·	Ron E Pompey	2812					
The MAILING DATE of this communication a			ress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this companion (35 U.S.C. § 133).	nmunication.				
Status	00.14						
1) Responsive to communication(s) filed on 2							
, _	This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-13 is/are pending in the applicat	Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) <u>13</u> is/are withdraw	4a) Of the above claim(s) <u>13</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊡ Claim(s) <u>1-12</u> is/are rejected.							
Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers	inar						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the p application from the International* See the attached detailed Office action for a limit of the certified copies of the particular and the certified copies of the particular action for a limit of the certified copies of the particular action for a limit of the certified copies of the particular action from the p	Bureau (PCT Rule 17.2(a)).		stage				
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C	. § 119(e) (to a provisional a	application).				
 a) The translation of the foreign language 15) Acknowledgment is made of a claim for dome 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	v Summary (PTO-413) Paper No(s f Informal Patent Application (PTO					
S. Patent and Trademark Office							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over the disclosed prior art and in further view of Glang et al. (US 4,467,519).
 - a. The Disclosed prior art discloses the limitations of:

Forming a window (1, fig. 1A) in the polysilicon layer;

Doping the predetermined area (5, fig. 1B); and

Forming spacer (9, fig. 1D) in the self-adjusting manner with respect to an edge of the window.(page 5, line 8 – page 7, line9)

b. Glang discloses:

Diffusing the dopant outward from the first region (col. 6, lns. 41-50).

Therefore one of ordinary skill in the art would combine Glang with the disclosed prior art in order to create a base with sufficient width and doping to avoid punch-through.

Response to Arguments

3. Applicant's arguments filed 3-28-03, pertaining to claims 1-12, have been fully considered but they are not persuasive. The applicant argues that the dopant is not diffused outward from the monocrystalline substrate as claimed. However the claims

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taken in their broadest scope do not read on diffusing form the substrate. The claims states that "...diffusing the dopant outward form the first region..." However outward is not defined as into (which would be away from the bottom surface of the substrate) or away from the upper surface of the substrate. In any case since the first region is defined only being adjacent to the second region, therefore the second region is the polycrystalline silicon layer and the diffusion is outward from it or that the region formed during the out-diffusion which is further annealed when forming the emitter region is diffused outward toward the bottom surface of substrate.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ron E Pompey whose telephone number is (703) 305-3016. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Ron Pompey

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June 2, 2003

July

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